	Please replace the paragraph beginning at page 7, line 7 with the following:
AZ	Figure 1B shows a window of an integrated design environment used for user module
	selection in accordance with an embodiment of the present claimed invention.
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	Please replace the paragraph beginning at page 7, line 12 with the following:
A3	Figure 1C shows a window of an integrated design environment used for user module
	placement in accordance with an embodiment of the present claimed invention.
	Please replace the paragraph beginning at page 7, line 22 with the following:
A4	Figure 1E shows a window of an integrated design environment used for specifying device
	pinout in accordance with an embodiment of the present claimed invention.
	Please replace the paragraph beginning at page 12, line 13 with the following:
	The computer system 112 of Figure 1A may be used with an integrated design environment
A5	(IDE). An example of an IDE is PSOC DESIGNER software, available from Cypress
	MicroSystems, Inc., Bothell Washington. The PSOC DESIGNER integrated design environment
	contains three subsystems; a DEVICE EDITOR subsystem for configuring a target device, an
	APPLICATION EDITOR subsystem, and a DEBUGGER subsystem. The interface is split into
	several active windows that differ depending on which subsystem you are in.
	Please replace the paragraph beginning at page 12, line 20 with the following:

 $\begin{array}{c} \begin{array}{c} \text{AG} \\ \text{Cm} \end{array} \\ \begin{array}{c} \text{AG} \\ \text{cm} \end{array} \\ \end{array} \\ \begin{array}{c} \text{The configuration subsystem of Figure 1B is used for selection, placement and configuration} \\ \text{of User Modules. Figure 1B shows a configuration interface 120 in selection mode. The} \\ \text{configuration subsystem is the subsystem in which the bulk of datasheet information is generated.} \end{array}$ 

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Shown in Figure 1B are a User Module Selection Window 121, User Module Window 122, User Information Windows 123, and a Resource Manager Window 124.

Please replace the paragraph beginning at page 13, lipe 5 with the following:

In an embodiment of the invention a project begins with the selection of a target device such as the Cypress MicroSystems CY8C25122A microcontroller. The CY8C25122A is a member of the CY8C25xxx/26xxx family of PROGRAMMABLE SYSTEM ON A CHIP or PSOC microcontrollers that replaces many MCU-based system components with one single-chip, programmable device. A single PSOC microcontroller offers a fast core, Flash program memory, and SRAM data memory with configurable analog and digital peripheral blocks in a range of convenient pin-outs and memory sizes. The driving force behind this innovative product comes from user configurability of analog and digital arrays of configurable blocks. These blocks are analog and digital peripheral blocks that are customized by the placement and configuration of User Modules.

Please delete page 13, lines 12-19 in their entirety.

Please replace the paragraph beginning at page 13,-line 21 with the following:

The configuration subsystem interface 120 is used to configure the target device. User Modules (represented by icons) may be selected from the User Module Window 122, which causes an icon to appear in the User Module Selection window 121. In this example a pulse width modulator PWM16\_1 125 is shown as selected. Information regarding the PWM16\_1 125 is shown in the User Information Windows 123. The Resource Manager Window shows the target device resources that are used by the PWM16\_1.

Please replace the paragraph beginning at page 14, line 8 with the following:

Figure 1C shows the configuration interface 120 in placement mode, with a Placement Window 130, a Global Resources Window 131, and a User Module Parameters Window 132. User Modules shown in the User Module Selection window 121 are placed in the Placement Window 130. The placement of the PWM16\_1 125 is indicated by the two digital blocks 133 and 134 shown in the Placement Window 130. Parameters and resources shown in the Global Resources Window 131 and User Module Parameters Window 132 are available for configuration by the designer.

Please replace the paragraph beginning at page 14, line 19 with the following:

Figure 1D shows the configuration interface 120 with expanded Global Resources Window 131 and User Module Parameter Window in which resources and parameters have been set. For example, in the Global Resources Window 131, the CPU\_Clock has been set with a frequency of 12 MHz and the Sleep Timer has been set with a frequency of 512 Hz. In the User Module Parameters Window the period has been set at 134 and the Pulse Width has been set at 92. The values entered by the designer, in addition to default values, are stored in an XML formatted database.

Please replace the paragraph beginning at page 15, line 4 with the following:

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Figure 1E shows a configuration interface of an integrated design environment used for deploying module connections. Interconnections can be specified on the device in the placement mode of the configuration subsystem. User Module interconnections consist of connections to surrounding configurable blocks, output bus, input bus, internal system clocks and references, external pins, and analog output buffers. Multiplexors may also be configured to route signals throughout the block architecture.

Please replace the paragraph beginning at page 15, line 14 with the following:

Referring again to Figure 1E, a Pinout Window 140 and a Pinout Parameters Window 141 are shown. The Pinout window includes a diagram of the pin layout of the target device (e.g., the Cypress MicroSystems CY8C25122A). The Pinout Window accepts input specifying the connections for the configurable blocks to the pins. In this example, there is only one User Module present, and thus there are no interconnections specified between multiple User Modules. Typically, there may be multiple User Modules with designer specified interconnects which would be stored in the project database. Some interconnects are designer specified, whereas others are generated automatically (e.g., the interconnection of configurable blocks of a selected User Module.)

Please replace the paragraph beginning at page 21, line 1 with the following:

Figures 3A through 3G show an example of a portion of a database formatted in XML in accordance with an embodiment of the present claimed invention. The XML formatted data can be associated with a device such as the Cypress MicroSystems CY8C25122A PSOC microcontroller and a computer aided design system, e.g., Cypress MicroSystems PSOC DESIGNER integrated design environment. The part includes a microprocessor, memory, digital blocks, analog blocks, and 8 pins (6 I/O pins). Examples of the data that may be included in the database are pin-out information, schematics, connectivity, parameters, block information, and signal information. Hardware suitable for use with the present invention is described in a U.S. Patent Application titled "Programmable Microcontroller Architecture," by W. Snyder, filed on October 22, 2001; the whole of which is incorporated herein by reference. Additionally, an environment in which the present invention may be practiced is described in U.S. Patent Applications No. 09/972,003 (filed October 5, 2001), No. 09/972,133 (filed October 5, 2001), and No. 09/972,319; which are incorporated herein by reference.

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Please replace the paragraph beginning at page 21, line 22 with the following:

The hierarchical nature of the PSOC microcontroller architecture is well suited to representation in an XML formatted database, and the XML formatted data is readily available as a direct result of the design activity. The data that serves as the basis for the automatic generation of a datasheet does not require an exceptional overhead or a specialized processor.

Please replace the paragraph beginning at page 24, line 2 with the following:

Figures 5A through 5E show a visual output datasheet as rendered by a browser. From within an IDE, the visual output may be obtained by simply clicking on an icon (invoking a browser for the datasheet of the current project) or clicking on a datasheet file in a directory (associating the datasheet file type with the browser application). Either of these methods is referred to as a "single action datasheet display."

Please replace the paragraph beginning at page 24, fine 16 with the following:

Figure 5A shows a portion of the data provided by interaction with the configuration interface shown in Figures 1B through 1E. The Signal Pin Table 503 of Figure 5A is produced from input to the Pinout Window 140 and the Pinout Parameters Window 141 of Figure 1E. Similarly, the Selected Global Parameters table 505 of Figure 5A originate from input provided using Global Resource Window 131 shown in Figure 1D. Other user selected input appears in the Parameters table 507 of Figure 5B and the Pin table 509 of Figure 5D.

Please replace the paragraph beginning at page 25, line 4 with the following:

In addition to the user selected input, the visual output datasheet also includes graphics elements such as the PWM schematic 506 shown in Figure 5B and the 25122PDIP outline 504 in the Signal Pin Table 503 of Figure 5A. Other graphics elements are the logo 500 and icon 502